

Claims

1. (Currently Amended) A method of inducing or promoting angiogenesis:

(a) in a tissue, the method comprising:

introducing into the tissue an effective amount of the peptide of SEQ ID NO: 4 or a variant or fragment thereof that has at least ~~90%~~^{95%} sequence identity with SEQ ID NO: 4 and that retains angiogenic activity, thereby inducing angiogenesis in the tissue, or

(b) in a target area in a subject where angiogenesis is desired, the method comprising:

introducing into the target area a therapeutically effective amount of the peptide of SEQ ID NO: 4 or a variant or fragment thereof that has at least ~~90%~~^{95%} sequence identity with SEQ ID NO: 4 and that retains angiogenic activity, thereby promoting angiogenesis in the target area in the subject.

2. (Canceled) ~~The method of claim 1, wherein the variant or fragment has at least 95% sequence identity with SEQ ID NO: 4.~~

3. (Currently Amended) The method of claim 1, wherein the peptide ~~is comprises~~ the peptide-amino acid sequence shown in SEQ ID NO: 4.

4. (Original) The method of claim 1, wherein the tissue comprises a graft, heart tissue, a blood vessel, a wound, or a coronary artery.

5. (Original) The method of claim 4, wherein the graft comprises a skin or organ graft.

6. (Original) The method of claim 1, wherein introducing comprises local administration or systemic administration.

7. (Original) The method of claim 6, wherein local administration comprises topical administration, intra-arterial administration, intravenous administration, subcutaneous

administration, intramuscular administration, intrathecal administration, intrapericardial administration, intra-ocular administration, topical ophthalmic administration, or administration by inhalation.

8. (Canceled)

9. (Original) The method of claim 1, wherein inducing angiogenesis comprises inducing neovascularization.

10. – 18. (Canceled)

19. (Original) The method of claim 1(b), wherein the subject has or is at risk for developing coronary artery disease, peripheral vascular disease, cerebral ischemia, or a wound.

20. (Original) The method of claim 1(b), wherein the target area comprises a vessel in which blood flow is restricted.

21. – 22. (Canceled)

23. (Original) The method of claim 1(b), wherein the subject has coronary artery disease, peripheral vascular disease, or a wound.

24. – 46. (Canceled)